NC/QC/YPD/2018-19/BG2-C1 Date: 08-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : Zuari
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**172 min**	Shall not be less than 30 min
2	Final setting time	**266 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.11 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.47 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/2018-19/BG2-PCC1

Date: 08-01-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.35**	0 -20	30- 70
10mm	**30.90**	0 -5	10- 35
4.75mm	**3.20**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.60**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.45**	60-95	75-100	85-100	
01.18	**69.10**	30-70	55-90	75-100	
600.mic	**51.95**	15-34	35-59	60-79	
300.mic	**15.80**	5-20	8-30	12-40	
150.mic	**6.30**	0-10	0-10	0-10	

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NC/QC/YPD/2018-19/BG2-C2 Date: 16-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : Zuari
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**179 min**	Shall not be less than 30 min
2	Final setting time	**283 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.87 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.97 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.92 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/2018-19/BG2-FA1 **Date: 16-01-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.65**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.90**	60-95	75-100	85-100	
01.18	**65.30**	30-70	55-90	75-100	
600. mic	**56.85**	15.34	35-59	60-79	
300.mic	**11.70**	5-20	8-30	12-40	
150.mic	**6.25**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.71 %**	-----
2	Silt Content	----	**0.61 %**	Not more than 8%
3	Specific Gravity	----	**2.62**	-------

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NC/QC/YPD/2018-19/BG2-CA1

Date: 16-01-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**97.60**	85-100	90 - 100
10 mm	**32.85**	0 - 20	25 - 55
4.75 mm	**7.40**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**21.90 %**	Not to exceed 25 %
2.	Crushing value	**26.25 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/2018-19/BG2-SSM1 Date: 21-01-2019

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1319.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.42 %**	Not more than 2.0 %

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NC/QC/YPD/2018-19/BG2-SSM2 **Date: 24-01-2019**

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1359.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.41 %**	Not more than 2.0 %

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NC/QC/YPD/2018-19/BG2-CB1 **Date: 08-02-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-02-19	08-02-19	07	22500	295	13.11	**12.74**
	002	"	"	"	"	280	12.44	
	003	"	"	"	"	285	12.67	

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NC/QC/YPD/2018-19/BG2-CB1a

Date: 01-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-02-19	01-03-19	28	22500	400	17.78	**17.78**
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	405	18.00	

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